

LISTING OF CLAIMS

Claims 1-27 (Cancelled).

28. (Currently Amended) A method of operating a motor of a pump for use with at least one of a pool and a spa, the method comprising:

measuring an AC line current;

determining whether the AC line current is greater than a programmed threshold ~~causing a jamming fault condition~~ due to a foreign object obstruction in at least one of the pool and the spa;

automatically reducing at least one of an output voltage provided to the motor and an operating frequency of the motor if the AC line current is ~~less~~ greater than the programmed threshold in order to drive the motor in a limp mode in an attempt to clear ~~the jamming fault condition and~~ the foreign object obstruction; and

automatically shutting down the motor within up to about 30 seconds if the motor does not operate within operational limits while being driven in the limp mode ~~and the jamming fault condition and~~ the foreign object obstruction cannot be cleared.

Claims 29-31 (Cancelled).

Claims 32-86 (Cancelled).

87. (Currently Amended) A method of operating a motor of a pump for use with at least one of a pool and a spa, the method comprising:

measuring a parameter including at least one of an actual pressure, a bus current, a bus voltage, a line current, a temperature of a heat sink, and a speed of the motor;

determining if the parameter is outside of a range of programmed thresholds causing a jamming fault condition due to a foreign object obstruction in at least one of the pool and the spa;

executing [[a]] an automatic recovery operation if the parameter is outside of [[a]] the range of programmed thresholds in an attempt to clear the jamming fault condition and the foreign object obstruction, the automatic recovery operation including at least one of generating an updated speed control command, driving the motor in a limp mode, shutting down the motor for up to about 30 seconds and then restarting the motor, and operating the motor in a reverse direction for up to about 30 seconds and then operating the motor in a forward direction; and

automatically shutting down the motor within up to about 30 seconds if the recovery operation fails and the jamming fault condition and the foreign object obstruction cannot be cleared.